

SOBELEVA, V. VP.,

"Sclerotinia of Jerusalem Artichoke, "Biulleten' VII Vsesoiuznogo S'ezda po
Zashchite Rastanii v Leningrade 15-23 Noiabria 1932 Goda, no. 6, 1932, pp. 14-15.

So: SIRA-S1-90-53, 15 Dec 1953

SOBOLEVA, V. P.

"Diseases of the Jerusalem Artichoke and Their Control," Trudy Vsesoiuznogo Nauchno-Issledovatel'skogo Instituta Tsernobobovykh Kul'tur, vol. 6, no. 1, 1935, pp. 16-196. 20 N256

So: SIRA-S1-90-53, 15 Dec 1953

1ST AND 2ND DEGREE PROCESSES AND PROPERTIES INDEX

110 AND 4TH DEGREE

COMMON ELEMENTS

COMMON VARIABLE

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

SECTION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

AM

МЕТЛИЦКА (L. V.) & СОВОЛЕВА (Mme V. P.). Изучение летального действия электрического поля высокой частоты на культуры грибов *Sclerotinia libertiana* и *Botrytis cinerea*. (Предварительное сообщение.) [Studies of the lethal action of the electrical high frequency field on cultures of *Sclerotinia libertiana* and *Botrytis cinerea*. (Preliminary report.)]—*Pt. Prot. Leningr.*, 1936, 10, pp. 32-36, 1936. [English summary.]

In the authors' experiments pure cultures of *Sclerotinia libertiana* [*S. sclerotiorum*] and *Botrytis cinerea* were killed after 20 seconds' exposure to a high-frequency current under the following technical conditions: filament tension 11 volts, anode tension 2,000 volts, current in the secondary circuit 10 amp., wave-length 5-6 m., diameter of the secondary circuit plate 12 cm. In carrot roots inoculated with *S. sclerotiorum* and subjected to the same irradiation, for periods up to 3 minutes, the fungus was still alive two or three days later.

CA

15

Disinfection of vegetable seeds. V. P. Sotkova. *Choskherodstro* 1940, No. 2, 26-7. —HgCl₂ (I), bactericide of Zbarskii (II), "NIUIF prepn." (III), formaldehyde (IV) and KMnO₄ (V) were used as disinfectants. Treating the carrot seeds with I (1:1000) for 10 min., with II (1:10,000) for 30 min. and with III (1:400) for 10 min. destroyed *Alternaria radicina* spores and did not affect the germinating properties of the seeds. For cabbage seeds effective results were obtained by treatment with I (1:1000) for 10 min., with II (1:5000) for 30 min., and, especially, with III (1:400) for 15 min. III destroys *Bacterium campestrae* and *Alternaria brassicae* in the seeds. Good results were obtained by treating tomato seeds infected with bacterial canker with I (1:3000) for 5 min. and washing in pure water, with II (1:10,000) for 30 min. and with IV (1:100) for 60 min. + 2 hrs. blistering. Disinfection with I, II and III can be performed 2-3 months before planting. Disinfection with IV must be carried out immediately before planting. After the disinfection the seeds must be carefully dried. Field expts. confirmed the lab. results. W. R. Henn

A 10 S L A METALLURGICAL LITERATURE CLASSIFICATION

1. SOBOLEVA, V. P., POFOVA, M. P.
2. USSR (600)
7. Vrediteli i Bolezni Plodovo-Yagodynkul'tur (Pests and Diseases of Fruit and Berry Crops), 263 pp, Moscow, 1951.
9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

5. SUBMITTED LP
KAMSHILOV, N.A.; ANTONOV, M.V.; BAKHAREV, A.N.; BLINOV, L.F.; BORISOGLEBSKIY,
A.D.; GAR, K.A.; GARINA, K.P.; GORSHIN, P.F.; GUTIIYEV, G.T.;
DELITSINA, A.V.; DUBROVA, P.F.; YEVTUSHENKO, A.F.; YEGOROV, V.I.;
YEREMENKO, L.L.; YEFINOV, V.A.; ZHILITSKIY, Ya.Z.; ZHUCHKOV, N.G.,
prof.; ZAYETS, V.K.; ISKOL'DSKAYA, R.B.; KOLESNIKOV, V.A., prof.;
KOLESNIKOV, Ye.V.; KOSTINA, K.F.; KRUGLOVA, V.A.; LEONT'YEVA, M.N.;
LESYUK, Ye.A.; MUKHIN, Ye.N.; NAZARYAN, Ye.A.; NEGRUL', A.M., prof.;
ODITSOV, V.A.; OSTAPENKO, V.I.; PETRUSEVICH, P.S.; FROSTOSERDOV,
N.N., prof.; RUKAVISHNIKOV, B.I.; RYABOV, I.N.; SABUROV, N.V.;
SABUROVA, T.N.; SAVZDARG, V.E.; SEMIN, V.S.; SIMONOVA, M.N.;
SMOLYAMINOVA, N.K.; SOBOLEVA, V.P.; TARASENKO, M.T.; FETISOV, G.G.;
CHIZHOV, S.T.; CHUGUNIN, Ya.V., prof.; YAZVITSKIY, M.N.;
ROSSOSHCHANSKAYA, V.A., red.; BALLOD, A.I., tekhn.red.

[Fruitgrower's dictionary and handbook] Slovar'-spravochnik
sadovoda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 639 p.
(MIRA 11:1)

(Fruit culture--Dictionaries)

CHARNIK, Konstantin Timofeyevich [Charnyk, K.T.]; SOBOLEVA, V.P.
[Sobolieva, V.P.], red.; MOROZKO, L.G. [Morozko, L.H.],
tekhn. red.

[We are all one family; striving for the title of the col-
lective farm of communist labor] Idemo iedynoiu sim'ieiu; v
borot'bi za kolhosp komunistychnoi pratsi. Kyiv, Kyivs'ke
obl. knyzhkovo-gazetne vyd-vo, 1963. 46 p. (MIRA 17:3)

1. Predsedatel' matyushanskogo kolkhoza "Radyans'ka
Ukraina" , Belotserkovskoye upravleniye, Kiyevskaya oblast'
(for Charnik).

KRIMER, I.L., otv.red.; SOBOLEVA, V.S., otv.red.; SKURYGINA, P.V.,
P.V., otv.red.; SHURAN, Ye.M., otv.red.; TRET'YAKOVA, L.Ye.,
otv.red.; BALANTSEVA, I.A., otv.red.; SHAPIRO, Ye.M., otv.red.;
FEDOSEYEV, V.A., red.; BENEVSKAYA, V.A., red.; SOLOV'YEV, S.N.,
tekhn.red.

[Cartographic chronicle; organ of the state bibliography of the
U.S.S.R. for 1951-1953] Kartograficheskaya letopis'; organ
gosudarstvennoi bibliografii SSSR, 1951-1953. Moskva, Izd-vo
Vses.knizhnoi palaty, 1954. 162 p. (MIRA 12:7)

1. Vsesoyuznaya knizhnaya palata.
(Bibliography--Maps)

YANYSHEVA, S.K., otv.red.; SLASHCHEVA, S.K., otv.red.; KRIMER, I.L., otv.red.;
SOBOLEVA, V.S., otv.red.; SHURAN, Ye.M., otv.red.; FEDOSEYEV, V.A.,
red.; BENEVSKAYA, V.A., red.; SOLOV'YEV, S.N., tekhn.red.

[Cartographic chronicle; organ of the state bibliography of the
U.S.S.R., 1954] Kartograficheskaya letopis'; organ gosudarstvennoi
bibliografii SSSR, 1954. Moskva, Izd-vo Vses.knizhnoi palaty,
1955. 124 p. (MIRA 12:7)

1. Vsesoyuznaya knizhnaya palata.
(Bibliography--Maps)

SOBOLEVA, V.V.

USSR/Cultivated Plants - General Problems

M-1

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1424

Author : V.V. Soboleva

Inst : Not Given

Title : Method for Agricultural Crops in Czechoslovakia

Orig Pub : Seleksiya i semenovodstvo, 1957, No 3, 56-64

Abstract : No abstract

Card : 1/1

NAGORNY, A.I.; SOBOLEVA, Ye.D.

Changes occurring in the properties of natigorite upon heating.
Ogneupory 18 no.2:81-88 F '53. (MIRA 11:10)

1. Institut ogneuporov i stroymaterialov KazAN.
(Antigorite) (Refractory materials)

NAGORNYI, A.I.; SOBOLEVA, Ye.D.

The use of Kazakhstan magnesium silicates for the manufacture of forsterite refractory materials. Izv. AN Kazakh. SSR ser.ger.dela. met. i stroimat. no.2:40-47 '54. (MLRA 9:6)
(Kazakhstan--Magnesium silicates)(Refractory materials)

KOVALEV, L.K.; SOBOLEVA, Ye.D.

Mortar with glass foam sand as compensator in dynamic loads.
Izv. AN Kazakh SSR Ser.gor.dela, met. i stroimat. no.2:48-52
'54. (Mortar) (Sand, Glass) (MLRA 9:6)

Soboleva, E.D

7022

Large-pore concrete from clay-gypsum raw materials.
A. I. Minas and E. D. Soboleva. *Izvest. Akad. Nauk
Kazakh. S.S.R., Ser. Gornogo Dela, Met. i Stroimaterial.*
1955, No. 5, 68-70 (in Russian).—Clay-gypsum material
contg. about 59% $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ can be used to make anhy-
drite cement of mark "100" and 2nd-grade structural
gypsum. With gravel, it can be used to make large-pore
concrete suitable for wall material. B. Z. Kamich

2/

Soboleva, E. D.

✓ Marshallite as a microfiller for concretes. V. V. Konstantinov and E. D. Soboleva. *Izvest. Akad. Nauk Kazakh. S.S.R. Ser. Gornogo Dela, Met. i Stroimaterial.* 1955, No. 5, 84-91 (in Russian).—Marshallite can be used to dil. cement in making low-grade concretes. Procedure for detg. the activity of cements in accordance with GOST 310-41 is unsuitable for detg. the influence of microfillers on the activity of the dil. cement. Instead, the activity should be detd. with plastic mixes, contg. sand which meets the requirements of concrete filler. This gives more correct results and corresponds more to the behavior of the dil. cement in concretes. B. Z. Kamich.

Max

2

SHIBATA, Y. T., MATSUDA, S. O., & YAMAGUCHI, H. T.

"Lightscattering of branched polystyrenes," a paper presented at
the 5th Congress on the Chemistry and Physics of High Polymers, 28 Jan.-2 Feb
57, Moscow, Karpov Inst.

D-3,074,395

TANASIYENKO, F.S., inzh.; SOBOLEVA, Ye.G., inzh.

Storage conditions of coriander as a factor influencing the linaloöl content of an essential oil. Masl.-zhir.prom. 27 no.1:24-26 Ja '61.
(MIRA 14:1)

1. Krymskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta maslichnykh i efiromaslichnykh kul'tur (for Tanasiyenko). 2. Alekseyevskiy efirokombinat (for Soboleva).
(Coriander) (Linaloöl)

SOBOLEVA, Ye. I.

Soboleva, Ye. I. - "Some results of study of the continental tertiary series in the Turgay depression," Bestnik Akad. nauk Kazakh. SSR, 1948, No. 12, P. 37-44 --- Summary in Kazakh --- Bibliog: 8 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

SOBOLEVA, YE. M.

Alfalfa

Bees and the yield of alfalfa seed.
Pchelovodstvo 29, No. 8, 1952.

9, Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

USSR / General and Special Zoology. Insects. Harmful P
Insects and Arachnids. Pests of Forage Cultures.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64062.

Author : Soboleva, Ye. M.

Inst : Not given.

Title : The Effect of Fertilizers on the Reduction of
the Number of Alfalfa Pests.

Orig Pub: Khlopkovodstvo, 1957, No 7, 45-47.

Abstract: With increase of the superphosphate (I) treat-
ment from 100 to 300 kg/ha, the number of the
alfalfa-leaf beetle is decreased; this, however,
is increased in the 2nd year of treatment on
account of the salt's decreased concentration
in the soil. But the number of "sitons", al-
falfa pest, alfalfa and field bugs decreases
as a result of the introduction of I. The al-
falfa leaf beetle is controlled best when 110 kg/
/ha of I is introduced prior to sowing and 200

Card 1/2

USSR / General and Special Zoology. Insects. Harmful P
Insects and Arachnids. Pests of Forage Cultures.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64052.

Abstract: kg/ha after sowing, either 85 kg/ha in rows or with seeds; the siton is best controlled, when 70-110 kg/ha of I are introduced (20 kg/ha of which are introduced after sowing); the field bug is controlled best when 130 kg/ha or 86 kg/ha with the seeds are introduced. The introduction of 100 kg/ha of I in addition to 2.5 t/ha of manure decreased the numbers of the alfalfa-leaf beetle (by 38%), the siton and the field bug. When the seeds are treated with 0.01% molybdenum solution, the number of siton decreases considerably (by 21-50%), but the number of the alfalfa-leaf beetle decreases to a lesser degree. The treatment of seeds with B (0.01%) and Cu (0.005%) solutions has no such effect. -- A. P. Adrianov.

Card 2/2

SOBOLEVA, Ye. M.

USSR/General and Special Zoology. Insects. Injurious In- P
sects. and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49646

Author : Soboleva Ye.M., Tyul'panova N.I.

Inst : -

Title : Scolytus Mali Bechst. and Methods for Its Control

Orig Pub : Sots. s. kh. Uzbekistana, 1957, No 7, 75

Abstract : No abstract

Card : 1/1

S. SOBOLÉVA, E. M.

USSR / General and Specialized Zoology. Insects. P
Insect and Mite Pests.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44778

Author : Soboleva, E. M.

Inst : Tashkent Agricultural Institute.

Title : The Tarnished Plant-Bug *Lygus Pratensis* L. as a
Pest of Alfalfa in Uzbekistan.

Orig Pub : Tr. Tashkentsk. s.-kh. in-ta, 1957, vyp. 8,
65-70

Abstract : No abstract given.

Card 1/1

SOBOLEVA, Ye., kand.sel'skokhoz.nauk (Tashkent)

Aerial disease and pest control for alfalfa. Grazhd.av. 17 no.10:
24 0 '60. (MIRA 13:9)

(Aeronautics in agriculture)
(Alfalfa--Diseases and pests)

LEONT'YEVA, YU.A., dotsent; GERASIMOV, B.S., dotsent; TRUSHKINA, L.R., aspirant; SOBOLEVA, Ye.M., kand. sel'skokhoz. nauk; SHARIPOV, B.S., nauchnyy sotrudnik (Tashkent); SAF'YANOV, S.P., aspirant; KRALL, E.L., kand. biolog. nauk; YULDASHEVA, Kh.Yu., mladshiy nauchnyy sotrudnik; KUZNETSOVA, P.A., agronom (Kostroma); ZHALNINA, L.S., mladshiy nauchnyy sotrudnik; SENCHENKO, M.G., mladshiy nauchnyy sotrudnik; SINITSYNA, A.A., nauchnyy sotrudnik; GOLUBEKIN, V.G., starshiy nauchnyy sotrudnik; BOGOVIK, I.V., kand. biolog. nauk (L'vov).

Brief news. Zashch. rast. ot vred. i bol. 9 no.10:52-56 '64
(MIRA 18:1)

1. Kafedra zashchity rasteniy Kuybyshevskogo sel'skokhoz naystvennogo instituta (for Leont'yeva, Gerasimov). 2. Samarkandskiy universitet (for Trushkina). 3. Kazakhskiy institut zashchity rasteniy (for Saf'yanov). 4. Institut zoologii i botaniki AN Estonskoy SSR, Tartu (for Krall'). 5. Sredneaziatskiy institut zashchity rasteniy (for Yuldasheva). 6. Institut lubyanykh kul'tur (for Zhalnina, Senchenko). 7. Institut sadovodstva nechernozemnoy polosy (for Sinitsyna). 8. Novosibirskaya sel'skokhozyaystvennaya opyt'naya stantsiya (for Golubkin).

SOBOLEVA, Ye.N., inzhener.

Results of specialization. Leg.prom.17 no.3:52-53 Mr '57. (MLRA 10:4)
(Clothing industry) (Sewing)

S O B O L E V A Y E . S .

REZNIKOVA, O.Yu; Soboleva, Ye.S.

Causes of refractoriness in children immunized with diphtheria
anatoxin; authors' abstract. Zhur.mikrobiol.epid.i.immun. no.8:
46-47 Ag '54. (MLRA 7:9)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo instituta
epidemiologii, mikrobiologii i gigiyeny (dir. Ye.S.Soboleva)
(DIPHTHERIA, prevention and control,
*anatoxin, causes of refractivity)

REZNIKOVA, O.Yu; SOBOLEVA, Ye.S.; KARNITSKAYA, N.V.; TRUSEVICH, A.I.

Prevention of seasonal catarrhs with an ecmolin and penicillin mixture. Zhur.mikrobiol. epid.i immun. no.7:48 J1. '55.(MLBA 8:10)

1. Iz Rostovskogo-na-Donu instituta epidemiologii, mikrobiologii i gigiyeny dir. Ye.S.Soboleva, i Rostovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii; glavnyy vrach G.A.Tsaturova.

(COMMON COLD, prevention and control,
antibiotic ekmoline with penicillin)

(ANTIBIOTICS, therapeutic use,
ekmoline, prev. of common cold, with penicillin)

(PENICILLIN, therapeutic use,
common, cold, prev.,with antibiotic ekmoline)

GORIYENKO, I.I.; SOBOLEVA, Ye.S.; ZARUBINA, L.V.

Action of penicillin with ecmoline on microflora of the pharynx and of the nose in the prevention of influenza and acute catarrhs of the upper respiratory tract. Zhur. mikrobiol. epid. i immun. no.12: 22-26 D '55. (MIRA 9:5)

1. Iz Rostovskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(INFLUENZA, prevention and control,
antibiotic ecmoline with penicillin, eff. on
nasopharyngeal flora)
(PENICILLIN, therapeutic use,
influenza & common cold prev., with ecmoline, eff. on
nasopharyngeal flora)
(ANTIBIOTICS, therapeutic use,
same)

SHVEDSKIY, B. P.; MESSINEVA, N. A.; CHERNTOVA, T. A.; SOBOLEVA, Yu. G.;
SHEL'GAS, L. Ye.

Functional study of the adrenal cortex in leucoses under treatment
with hormones and chemotherapeutic preparations. Probl. gemat. i
perel. krovi no.10:34-42 '61. (MIRA 14:12)

1. Iz gematologicheskoy kliniki (zav. - prof. M. S. Dul'tsin)
i klinicheskoy laboratorii (zav. N. A. Messineva) Tsentral'nogo
ordena Lenina instituta gematologii i perelivaniya krovi (dir. -
deystvitel'nyy chlen AMN SSSR prof. A. A. Bagdasarov [deceased])
Ministerstva zdravookhraneniya SSSR.

(LEUCOSIS) (ADRENAL CORTEX) (HORMONE THERAPY)
(CHEMOTHERAPY)

MOKEYEVA, R.A.; RUTBERG, R.A.; CHERNYAK, V.Ya.; MALLER, A.R.; PAPUSH, N.D.;
SOBOLEVA, Yu.G.; RAKHMAYEVA, V.A.; KHUTSISHVILI, G.E.

Use of plasmapheresis in macroglobulinemic reticulosis; Waldenström's
disease. Probl. gemat. i perel. krovi 9 no.12:33-40 D '64
(MIRA 18:1)

1. Gematologicheskaya klinika (zav. - prof. M.S. Dul'tsin) i labo-
ratoriya fraktsionirovaniya belkov (zav. - prof. G. Ya. Rozenberg)
TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (direktor - dotsent A. Ye. Kiselev), Moskva.

S/194/62/000/005/081/157
D222/D309

24,1800

AUTHORS: · Lebedev, N.A., Men'shikov, A.V., and Soboleva, Z.A.

TITLE: Low-power ultrasound generators

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-5-34 yu (V sb. Primeneniye ul'trazvuka v tekhnol. mashinostr. no. 2, M., 1960, 15 - 24)

TEXT: The following generators are described and the circuit diagrams are given: A624.12 of 0.5 kW power and 15-30 kc/s frequency range for the supply of electrical energy and direct current for magnetostrictive transducers with a radiation surface of up to 20 cm²; generator A624.08, intended for the supply of ultrasound soldering apparatus and tin-plating baths; generator A624.14 for the supply of electrical energy for quartz transducers with a radiation surface of up to 12 cm². [Abstractor's note: Complete translation]. ✓

Card 1/1

24 1800

1137, 2607

26249
S/194/61/000/001/016/038
D216/D304

AUTHORS: Lebedev, N.A., Men'shikov, A.V. and Soboleva, Z.A.
TITLE: Design of ultrasonic generators
PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 1, 1961, 13, abstract 1 E107 (V Sb. Primeneniye
ul'traakust. k issled. veshchestva, no. 10, M.,
1960, 61-68)

TEXT: Circuits and descriptions are given of electric generators with power outputs 0.5; 1.5; 5 and 8 kW used as supplies for ultrasonic magnetostriction generators. The frequency range of generators is 15 - 30 Kc/s. Experimental characteristics of generators are given together with a short description of an installation for ultrasonic processing of hard and brittle materials and of a bath for ultrasonic cleaning of electronic vacuum components.

Card 1/1

ORECHKIN, D.B.; POPOVA, N.V.; SOBOLEVA, Z.A.; SHEPOT'KO, O.F.

Hydrogenation of sperm whale oil over a fixed catalyst to produce higher
alcohols. Zhur.prikl.khim. 35 no.11:2504-2508 N '62. (MIRA 15:12)
(Whale oil) (Hydrogenation) (Alcohols)

SOBOLEVA, Z.V.; SHVETSOVA, M.A.; SHVETSOV, P.V.

Pollution with phenols of the soil, subsurface waters and bottom sediments in the region of the combine "Slantsa". Trudy ISGMI no.68:167-172 '61. (MIRA 15:11)

1. Kafedra kommunal'noy gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. A.I.Shtreys).

(PLYUSSA RIVER--WATER--POLLUTION)(PHENOLS)(SOIL POLLUTION)
(NARVA RESERVOIR--WATER--POLLUTION)

SOBOL'VA, V.Ya.

Function of the thyroid gland in uterine hemorrhages. Trudy
Izhev.gos.med.inst. 21:230-234 '64.

(MIRA 19#1)

1. Kafedra akusherstva i ginekologii (nauchnyy rukovoditel' -
prof.A.V.Khokhlov [deceased] i dotsent kafedry gosital'noy
terapii L.A.Leshchinskiy) Izhevskogo meditsinskogo instituta.

~~SOBOLEVA, DOMUCHAYEVA, I. I.~~

Nature of damage caused to corn by wireworms. Nauch.dokl.vys.shkoly;
biol.nauki no.1:39-43 '58 (MIRA 11:8)

1. Predstavlena kafedroy entomologii Moskovskogo gosudarstvennogo
universiteta im. M.V. Lomonosova.
(CORN (MAIZE)--DISEASES AND PESTS)
(WIREWORMS)

Author: U.S.S.R. P
Subject: GENERAL & SPEC. ZOOLOGY, INSECTS . Harmful Insects
and Mites.
RUS. JOUR.: Zh. Obshch. Biologii, No. 2 , 1959, No. 7067
Author: Soboleva-Dokuchayeva, I. I.
Inst.: Not given
Title: Control of the Wireworm in the Oka River
Floodland.
ORIG. PUB.: Kukuruz, 1958, No. 2, 48-50
ABSTRACT: In Moskovskaya Oblast on the Oka River flood-
land six species of elaters harmful to corn
were found: *Agriotes sputator*, *A. obscurus*,
A. lineatus, *Selatosomus latus*, *Selatosomus*
aeneus and *Athous niger*. The greatest damage
is caused by *A. sputator* and *A. obscurus*.
The average number is 20-30 wireworms (W),
the maximum 144 per one m². The recommended
group of measures protecting corn against
the W consists of: sowing at the optimum

CARD: 1/2

SOBOLEVA-DOKUCHAYEVA, I. I., CAND BIO SCI, ^{IT} INSECTS — THE
~~BLIGHT~~ ^{pests} OF CORN IN THE OKA FLOOD-PLAIN AND THE DEVELOPMENT
OF MEASURES ^{to control} OF ~~COMBAT~~ ["] AGAINST THEM. MOSCOW, 1960. (MOSCOW
STATE PED INST IM V. I. LENIN). (KL, 2-61, 205).

SOBOLEVA-SOKUCHAYEVA, I.I., nauchnyy sotrudnik; SEMENOVA, S.A., nauchnyy
sotrudnik

Effective measure for protecting sugar beets against the mining
fly *Pygomyia hyosciami* Panz. Zashch. rast. ot vred. i bol.
7 no.1:39 '62. (MIRA 15:6)

(Sugar beets--Diseases and pests)
(Terpenes)

SOBOLEVA-DOKUCHAYEVA, I.I., kand.biolog.nauk

Poisoned barriers for corn protection against wireworms. Zashch.
rast.ot vred. i bol. 7 no.4:43 Ap '62. (MIRA 15:12)

1. Vsesoyuznyy institut kormov, st. Lugovaya, Moskovskoy obl.
(Corn (Maize)--Diseases and pests)
(Wireworms--Extermination)

BOYARSKIY, B.G.; PLOTNIKOV, V.F.; SOBOLEVA-DOKUCHAYEVA, I.I.; TSVETKOVA, N.N.;
ABRAMENKO, V.V.

Information and brief news. Zashch. rast. ot vred. i bol. 8
no.4:56-59 Ap '63. (MIRA 16:10)

(Plants, Protection of)

SOBOLEVOY, V.D.

[Scarlet fever] Skarlatina. Moskva, Medgiz, 1956. 160 p. (MLRA 10:2)
(SCARLET FEVER)

SHILINA, R.F.; BOGDANOV, K.A.; SOBOLEVSKAYA, A.V.

Synthetic enanthole. Masl.-zhir.prom. 26 m.7:38-39 JI '60.

(MIRA 13:7)

1. Kaluzhskiy kombinat sinteticheskikh dushistykh veshchestv.
(Heptanal)

K. SOBOLEVSKAIA.

KOLOBKOV, M. and K. SOBOLEVSKAIA. Tuvinskaia avtonomnaia Oblast'. (Geografiia v shkole, 1948, no. 6, p. 4.)

DLC: Unclass

SO: LC,Soviet Geography, Part II, 1951/Unclassified.

SOBOLEVSKAYA, G.D.; IOFFE, Yu.K.; NIKOLAYENKO, G.M.; FRIDMAN, Ye.M.

High-power small-sized X-ray tube for fluorescent X-ray spectroscopy. Zav. lab. 31 no.11:1414-1415 '65. (MIRA 19:1)

SOBOLEVSKAYA, K. A.

PA 26/49T74

USSR/Medicine - Plants
Medicine - Environment

Sep/Oct 48

"Basic Characteristics of Vegetation in South-eastern Tuva," K. A. Sobolevskaya, 4 pp

"Iz v-s Geograf Obschch" Vol LXXX, No 5

Author, on a recent trip to Teri-khol' Lake, collected some valuable data on the flora of subject region. Describes plant life and vicinities where it flourishes.

26/49T74

СОСЦИАЛИЗМА, П. П.

Crassos - Tannu Tuva

New species of the genus *Leucopoa* Criseb, from the Tuvianian Autonomous Province.
Bot. mat. Gerb., 14, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952, UNCLASSIFIED

BOBIL'YKHINA, K. A.

Agriculture - Tannu-Tuva

Detached from production demands ("Vegetation of Tuva.") Korm. baza 3 no. 3, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, July 1952, Uncl.

SOBOIEVSKAYA, K. A.

Konspekt flory Tuvy [Outline of Tuvz flora]. Novosibirsk, Zapadno-sibirskii filial. Botanicheskii sad, 1953. 246 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 9 December 1953.

24.08.1953 (1953)

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESKIY, D.M.; AVHORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S., (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I., (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talka given by participants in the meeting. Biul.Glav.bot.sada no.15:
85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova (for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo
(continued on next card)

NAZAREVSKIY, S.I.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prik-ladov); 9. Tsentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirsko-go filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Bo-tanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opyt-naya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opyt'naya stantsiya deko-rativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo kho-zyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy insti-tut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudar-stvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedago-gicheskii institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazo-vaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunistroy" (for Cherkasov); 21. Botani-cheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechni-kova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygan-kova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batsumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy
(continued on next card)

MAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskey SSR (for Rusanov, Bochantseva); 44.
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

KATYREV, A.Ye.; KAURTSEV, N.V.; KOZLOVSKIY, A.I., doktor sel'skokhozyaystvennykh nauk; KRASIKOV, Z.D., dotsent, kandidat sel'skokhozyaystvennykh nauk; SOBOLEVSKAYA, K.A.; LYKOV, M.S., redaktor; LISINA, V.M., tekhnicheskiy redaktor

[Experience in cultivating corn; based on papers at a province conference] Opyt vzdelyvaniya kukuruzy; po materialam oblastnoi konferentsii [Novosibirsk] Novosibirskoe kn-vo, 1956. 226 p.

(MLRA 9:12)

1. Novosibirskiy sel'skokhozyaystvennyy institut (for Krasikov)
(Corn (Maize))

SOBOLEVSKAYA, I.A., prof., doktor biolog.nauk

Problems pertaining to the utilization of vegetative resources
in Western Siberia. Trudy Bot. sada Zap.-Sib. fil. AN SSSR no.
1:5-9 '56. (MIRA 14:7)

(Siberia, Western--Botany)

SOBOLEVSKAYA, K.A.

Siberian conference on landscape gardening. Izv.vost.fil. AN SSSR
no.3:135-137 1972. (MLRA 10.9)
(Siberia--Landscape gardening)

SOBOLEVSKAYA, K.A.

Botanical gardens of Czechoslovakia. Izv. Sib. otd. AN SSSR no.2:
134-135 '58. (MIRA 11:9)

1. Zapadno-Sibirskiy filial AN SSSR.
(Czechoslovakia--Botanical gardens)

SOBOLEVSKAYA, K.A.

Introduction of plants in Siberia. Biul. Glav. bot. sada no.31:
19-24 '58. (MIRA 12:5)

1. Tsentral'nyy sibirskiy botanicheskiy sad AN SSSR.
(Siberia--Plant introduction)

SOBOLEVSKAYA, K.A.

Objectives of the research institutions of Western Siberia
in landscape gardening. Trudy TSSBS no.3:11-17 '60. (MIRA 15:3)
(Siberia, Western--Landscape gardening)

SOBOLEVSKAYA, K. A.

Arrangement of the display of the section of flora and plant
resources in the Central Siberian Botanical Garden of the
Siberian Branch of the Academy of Sciences of the U.S.S.R.

Trudy TSSBS no.4:5-14 '60.

(MIRA 15:4)

(Tomsk--Botanical gardens)

SOBOLEVSKAYA, K.A.

Development of the Central Siberian Botanical Garden. Trudy TSSBS
no.5:3-10 '61. (MIRA 15:3)
(Siberia--Botanical gardens)

SOBOLEVSKAYA, K.A., prof., doktor biol. nauk, otv. red.; SHALINA,
L.V., red.; SIMAKOVA, Ye.G., tekhn. red.

[Plant resources of Novosibirsk Province] Rastitel'nye bo-
gatstva Novosibirskoi oblasti. Otv. red. K.A.Sobolevskaja.
Novosibirsk, 1961. 222 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye.
(Novosibirsk Province--Botany, Economic)

SOBOLEVSKAYA, K.A.; MINAYEVA, V.G.

Studying the flora of the Altai as a source of flavonoid substances.
Izv.Sib.otd.AN SSSR no.4:68-72 '61. (MIRA 14:6)

1. Tsentral'nyy Sibirskiy Botanicheskiy sad Sibirskogo otdeleniya
AN SSSR, Novosibirsk.
(Altai---Botany, Economic)
(Flavonoids)

KRYLOV, Georgiy Vasil'yevich; SOBOLEVSKAYA, K.A., doktor bio. nauk,
prof., otv. red.; PADERIN, G.N., red.; SHMAKOVA, Ye.G., tekhn.
red.

[Forest resources and forest-type zones of Siberia and the Far
East] Lesnye resursy i lesorastitel'noe raionirovanie Sibiri i
Dal'nego Vostoka. Otv. red. K.A.Sobolevskaya, Novosibirsk,
Izd-vo Sibirskogo otd-niia AN SSSR, 1962. 239 p. (MIRA 16:3)
(Siberia--Forests and forestry)

PLENNIK, Razita Yakovlevna; SOBOLEVSKAYA, K.A., doktor biol. nauk,
prof., otv. red.; GREBENNIKOVA, M.M., red.

[Outlook for introduction of some forage plants into
cultivation] Perspektivy vvedeniia v kul'turu nekotorykh
kormovykh rastenii. Novosibirsk, Izd-vo Sibirskogo otd-
niia AN SSSR, 1963. 96 p. (MIRA 17:5)

SOBOLEVSKAYA, K.A.

Florogenetic method in plant introduction. Izv. SO AN SSSR no.
8. Ser. biol.-med. nauk no.2:14-24 '63. (MIRA 16:11)

I. Tsentral'nyy sibirskiy botanicheskiy sad Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

*

KRYLOV, G.V.; SOBOLEVSKAYA, K.A.

All-Union Congress of Botanists. Izv. SO AN SSSR no.12. Ser.
biol.-med. nauk no.3:152-153 '63. (MIRA 17:4)

EGUMINOVA, A.V.; SOBREVSKAYA, K.A.

Plant kingdom of Siberia as a productive force and outlook
for its utilization. Izv. Sib. otd. AN SSSR no.10:91-99 '62
(MIRA 17:8)

1. Tsentral'nyy Sibirskiy botanicheskiy sad Sibirskogo otdel-
leniya AN SSSR, Novosibirsk.

SOBOL'EVSKAYA, K.A.

international flower exhibitions in Holland and Italy. Izv.
Sib. otd. AN SSSR no. 1: 109-141 1982 (MIRA 17:8)

SOBOLEVSKAYA, N.A.

Relict flora of Siberia as a source for introduction. Study
TECHN. no. 7:2-17 1977. (MIRA 17:11)

CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL

SOBOLEVA, K.A.; VISOCHINA, O.I.

Study of flavonoids in the Altai representatives of the genus
Polygonum L. Rast.res. 1 no.3:367-369 '65.

(MIRA 18:10)

1. Sibirskiy botanicheskiy sad, Novosibirsk.

Соболевская, Н. П.

KARYSHEVA, K.A.; MAEVSKAYA, N.K.; SOBOLEVSKAYA, K.P.

Combined method of therapy of chronic gonorrhoea in women. Vest. vener.,
Moskva no. 5:39-40 Sept-Oct 1952. (CLML 23:3)

1. Professor for Karysheva. 2. Of the Department of Gonorrhoeology (Head
-- Prof. K. A. Karysheva), Kiev Dermato-Venereological Institute
(Director -- Prof. A. P. Lavrov).

AVDEYEVA, A.A., inzh., SPEYSHER, V.A., kand. tekhn. nauk, red.;
SOBOLEVSKAYA, L.A., red.

[Methods and control of gas combustion in electric power
plants] Metody i kontrol' szhiganiia gaza na elektro-
stantsiakh. Moskva, Energiia, 1965. 143 p.

(MIRA 18:7)

1. ORGRES, trust, Moscow.

SOBOLEVSKAYA, L. V.; KRASOVSKAYA, T. A.

Polymethyl siloxane fluids. Biul.tekh.-ekon.inform.Gos.nauch.-
issl.inst.nauch. i tekh.inform. no.10:30-32 '62.
(MIRA 15:10)

(Siloxanes)

L 17894-63

EWP(j)/EPF(c)/EWT(m)/BDS ASD

Pc-4/Pr-4 RM/WW/MAY
S/0191/63/000/008/0022/0024

ACCESSION NR: AP3004771

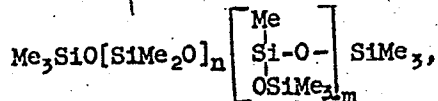
AUTHOR: Sobolevskaya, L. V.; Krasovskaya, T. A.; Sobolevskiy, M. V. 67

TITLE: Synthesis of polymethylsiloxanes with improved low-temperature properties

SOURCE: Plasticheskiye massy*, no. 8, 1963, 22-24

TOPIC TAGS: silicone, polymethylsiloxane, Alpha-Omega-hexamethylpolydimethylsiloxane, branching, polymethylsiloxane branching, degree of polymerization, polymethylsiloxane-degree of polymerization, viscosity, polymethylsiloxane viscosity, low-temperature property, polymethylsiloxane low-temperature property, congealing point, polymethylsiloxane congealing point

ABSTRACT: A study is made of the effect of 1) the ratio of the number of branched units (B) to the number of straight-chain units (S) and 2) mean degrees of polymerization (DP) ($n + m + 2$), of 8 to 25 on the congealing points (cp) and the temperature dependence of viscosity of polymethylsiloxanes with the general formula:

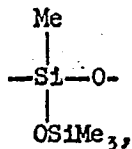


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ACCESSION NR: AP3004771

where Me is a CH₃ group, Me₂SiO corresponds to B, and



corresponds to S. It was found that as B/S rose from 0 to 0.11, the cp dropped from -76 to -116C, reaching a low of -118C at a B/S of 0.22-0.23 (optimum). A further rise of B/S to 0.44 increased the cp to only about -100C. This cp rise is attributed to the increased interaction between backbone and branches with an increasing number of branched units, resulting in loss of mobility of the polymer at higher temperatures. The DP had little effect on the cp. Polymer viscosity rose with respect to the viscosity of α,ω -hexamethylpolydimethylsiloxane, and the temperature dependence of viscosity also increased with an increasing B/S at a constant DP. Viscosity dropped and the temperature dependence of viscosity increased with decreasing DP at a nearly constant B/S. This increase in the temperature dependence of viscosity is attributed to the closeness of trimethylsiloxy end groups in short chains. Orig. art. has: 5 figures, 1 table, and 1 formula.

Card 2/32

SOBOL'EVSKAYA, O.P.

GORBOVSKAYA, T.G.; SHEREMET, Ye.G.; SOBOLEVSKAYA, O.P.; CHEMERINSKAYA, K.S.
MAYEVSKAYA, N.K.

In honor of professor K.A.Karysheva's 70th birthday. Vest. ven. 1
derm. no.3:63 My-Je '54. (MLRA 7:8)
(KARYSHEVA, KSENIJA ALEKSANDROVNA, 1883-)

Sobolevskaya, O.P.
KARYSHEVA, K.A., professor; GORBOVSKAYA, T.G., kandidat meditsinskikh nauk;
SOBOLEVSKAYA, O.P.

Asymptomatic gonorrhoea in women and young girls. Vest. ven. i derm
30 no.1:40-45 Ja-F '56 (MLRA 9:4)

1. Iz otdela gonorrologii (zav.-prof. K.A. Karysheva) Kiyevskogo
nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta
(dir. G.Ye. Karyakin)

(GONORRHEA, ther.

asymptomatic, in women & small girls, ther.)

CHEMERINSKAYA, K.S.; SOBOLEVSKAYA, O.P.; PLOTCHER, S.M., kand.biolog.nauk

Fungoid diseases of the skin and genitourinary organs in girls
and women. Vrach.delo no.4:423-424 Ap '60. (MIRA 13:6)

1. Kiyevskiy gorodskoy kozhno-venerologicheskij dispanser.
(GENERATIVE ORGANS, FEMALE--DISEASES)
(ANTIBIOTICS)

KARYSHEVA, K.O., prof.; SOBOLEVSKAYA, O.P. [Sobolevs'ka, O.P.];
CHEMERINSKAYA, K.S. [Chemeryns'ka, K.S.]

Treatment of young women with chronic gonorrhea with terramycin.
Ped., akush. i gin. 22 no.6:62-63 '60. (MIRA 14:10)

1. Kiivs'kiy mis'kiy shkirno-venerologichniy dispanser (golovniy
likar - A.S.Ivanov), viddil gonorologii (naukoviy kerivnik - prof.
K.O.Karisheva).

(TERRAMYCIN)

(GONORRHEA)

SOV/109-3-8-5/18

AUTHORS: Kapitsa, M.L., Mel'nikov, A.I., Morozov, A.V., Popov, B.N.,
Sobolevskaya, R.B., Tsarev, B.M. and Shul'man, A.R.

TITLE: Thermionic Properties of Barium Tungstate (Termo-
elektronnyye svoystva vol'framata bariya)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 8,
pp 1010 - 1016 (USSR)

ABSTRACT: The work described was concerned with the investigation
of the thermionic emission of barium tungstate and
 Ba_2CaWO_6 . The investigation was undertaken since it was
thought that the resulting data might be useful in
explaining the operation of the pressed cathodes and other
cathodes which contain barium tungstate. The investi-
gations were carried out on directly heated cathodes
which were based on tungsten and molybdenum cores. The
measurements were made on special experimental diodes,
fitted with protective anodes. The cathode temperature
was determined by measuring the change in the resistance
of the core. All the measurements were done under
static conditions. The coating of Ba_3WO_6 and Ba_2CaWO_6
were effected by two methods: a) a filament of the

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Thermionic Properties of Barium Tungstate

SOV/109-3-8-5/18

core metal was passed through a drop of the coating substance mixed with a binder; b) cataphoretic coating was used. In the first case, coarse-grain coatings were obtained, while the second method permitted obtaining the particles having a diameter of about $1 - 5 \mu$. The cathodes were de-gassed by heating up to 1250°K for the duration of 1 - 2 hours without taking any current.

This processing resulted also in a partial activation of the cathodes. Further activation of the cathodes (by heating and taking the current) was then carried out. During the preliminary activation, it was found that the work function (as measured from the Richardson curves) was of the order of 2.2 eV, while after the final activation, the work function dropped to 1.2 - 0.5 eV. The characteristics of a barium-tungstate cathode after final activation are shown in Figure 2. The emission current and the work function of the same cathode for various activating temperatures are given in Table 1. On the other hand, it was found that the cathodes of Ba_2CaWO_6 had very low emission densities. These were of the order

CaId2/4

Thermionic Properties of Barium Tungstate

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$\mu\text{A}/\text{cm}^2$, as can be seen from Table 2. By comparing the results of Table 2 with those for Ba_3WO_6 (given in Table 3), it is seen that the emission of the latter is about 100 times higher than that of the former. It was found that the curve:

$$\lg \frac{I}{T^2} = f\left(\frac{1}{T}\right)$$

for the cathode of barium tungstate consists of three regions (Figure 4). At low temperatures (below 900°K), the curve has the highest slope; the work function in this region is equal to 1.3 eV. In the regions of temperatures from $900 - 1250^\circ\text{K}$, the work function has a value of about 0.6 - 0.7 eV. Finally, at temperatures above 1250°K , the current decreases as a function of temperature and the slope of the curve cannot be regarded as representing the work function.

Card3/4

Thermionic Properties of Barium Tungstate

SOV/109-3-8-5/18

There are 5 figures, 5 tables and 4 references, 3 of which are Soviet and 1 English.

SUBMITTED: January 29, 1958

Card 4/4

1. Barium tungstates--Properties
2. Thermionic emission--Analysis
3. Cathodes--Performance

MEL'NIKOV, A. I.; MOROZOV, A. V.; SOBOLEVSKAYA, R. B.; SHOL'MAN, A. R.

Thermionic emission from barium tungstate. Fiz. tver. tela 2 no.4:
704-708 Ap '60. (MIRA 13:10)
(Barium tungstate) (Thermionic emission)

VINOGRADOV, V.A.; SOBOLEVSKAYA, R.F.

Sinian sediments in the northern part of the Kharaulakh Mountains.
Trudy nauch.-issl. inst. geol. Arkt. 85:64-66 '58.

(MIRA 12:8)

(Kharaulakh Mountains--Geology, Stratigraphic)

SOBOLEVSKAYA, R.F.

New data on the Cambrian stratigraphy of the central Taymyr
Peninsula. Trudy NIIGA 105:44-50 '59. (MIRA 13:5)

(Taymyr Peninsula--Geology, Stratigraphic)

SOBOLEVSKAYA, R.F.; MIL'SHTEYN, V.Ye.

Stratigraphy of Sinian sediments in the central Taymyr Peninsula.
Trudy NIIGA no.125:20-30 '61. (MIRA 16:7)
(Taymyr Peninsula--Geology, Stratigraphic)

OBUT, A.M.; SOBOLEVSKAYA, R.F.

Early Odovician graptolites in the Taymyr Peninsula. Trudy NIIGA 127:
65-96 '62. (MIRA 15:12)

(Taymyr Peninsula—Graptolites)

OBUT, Aleksandr Mikhaylovich; SOBOLEVSKAYA, Rimma Fedorovna;
SOKOLOV, B.S., otv. red.; ROZANOV, A.Yu., red.

[Ordovician graptolites of the Taymyr Peninsula] Graptolity
ordovika Taimyra. Moskva, Izd-vo "Nauka," 1964. 91 p.
(MIRA 17:6)

1. Chlen-korrespondent AN SSSR (for Sokolov).

OBUT, Aleksandr Mikhaylovich; SOBOLEVSKAYA, Rimma Fedorovna;
BONDAREV, Valentin Il'ich; SOKOLOV, B.S., prof., otv.
red.; KALANTAROV, A.P., red.

[Silurian graptolites of the Taymyr Peninsula] Graptolity
silura Taimyra. Moskva, Nauka, 1965. 119 p.

(MIRA 18:8)

1. Chlen-korrespondent AN SSSR (for Sokolov).

ACC NR: AT7000179

SOURCE CODE: UR/3182/65/002/000/0019/0026

AUTHOR: Dzhordzhishvili, L. I.; Kalabegishvili, T. L.; Politov, N. G.; Sobolevskaya, S. V.

ORG: none

TITLE: EPR and optical absorption in neutron-irradiated lithium fluoride crystals

SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 2, 1965, 19-26

TOPIC TAGS: lithium fluoride, EPR spectrum, halide optic material, alkali halide, neutron irradiation, crystal dislocation phenomenon

ABSTRACT: Test samples of LiF were cut from monocrystalline melts of natural material and irradiated in the atomic reactor of the Physics Institute, AN GruzSSR. The radiation energy of $1.9 \cdot 10^{15}$ to $2.9 \cdot 10^{16}$ was selected because alkali halide crystals are known to change their optical and mechanical characteristics significantly at these energies. EPR spectra were studied with standard radiospectrometers and with a doubly modulated magnetic field. The field was calibrated from the proton resonance signal and measurements were made at 77 and 290K. The EPR spectrum approximates a Gaussian curve, and the width of the EPR absorption line depends on crystal orientation to the magnetic field as well as on the radiation dosage. The coloration curve of the

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LiF crystals is the reverse of the dosage-dislocation density curve. The correlation between the dosage and the width of the EPR absorption spectrum is due partly to the broad F-center line and partly to a narrow line which appears at resonance saturation and has a g -factor close to that of the F-center. The effects of these two lines are different at different dosage levels. The narrow line is attributed to concentrations of closely packed and strongly interacting F-centers near dislocations. It is suggested that two types of F-centers are formed by the irradiation: 1) isotropically distributed centers in the bulk of the crystal, and 2) centers arising as highly localized concentrations near dislocations. With high doseages there is no F-center signal (up to $1.3 \cdot 10^{19}$ n/cm²), and a signal arises from conduction electrons because the F-centers coagulate and colloidal metal forms in the lattice. At maximum dosage the lattice fragments and the metallic lithium oxidizes. The authors thank G. R. Khutsishvili for discussions, G. N. Garsevanishvili for irradiation of the samples, and V. M. Fel'ker for assistance in determining the neutron dosages. Orig. art. has: 4 figures, 3 tables. [WA-95]

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ACC NR: AR6033778

SOURCE CODE: UR/0058/66/000/007/D071/D071

AUTHOR: Dzhordzhishvili, L. I.; Kalaberishvili, T. L.; Politov, N. G.; Sobolevskaya, S. V.

TITLE: Electronic paramagnetic resonance and the absorption of lithium fluoride in crystals irradiated by neutrons

SOURCE: Ref. zh. Fizika, Abs. 7D566

50

REF SOURCE: Sb. Elektron. i ion. protsessy v tverd. telakh. No 2. Tbilisi, Metsniyereba, 1965, 19-26

TOPIC TAGS: resonance, paramagnetic resonance, electronic paramagnetic resonance, lithium fluoride crystal, lithium fluoride, optical absorption, absorption coefficient, crystal, monocrystal, absorption line, magnetic field, dislocation, vacancy

ABSTRACT: An investigation was made of the electron paramagnetic resonance (EPR) and optical absorption of natural lithium fluoride (LiF) monocrystals irradiated by a neutron flux of $1.9 \cdot 10^{15}$ — $2.9 \cdot 10^{16}$ neutron/cm² at 300 and 77K. This involved a determination of the EPR absorption line width ΔH as a function of the angle between the magnetic field and the axis [111], and of the annealing time and temperature. Complex curves of the dosage dependence of ΔH and the coefficient of

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optical absorption were found to agree in slope with the maximum occurring at $15 \cdot 10^{15}$ neutron/cm². The maximum is due to the dissolution of dislocations accompanied by an injection of vacancies into the crystal and the capture of electrons by injected anion vacancies. The observed EPR spectrum consists of two superimposed lines: a wide line determined by F-centers distributed evenly within the crystal, and a narrow one with the concentration of F-centers near the dislocations. Thus, the width of the total EPR spectrum depends on the concentration of F-centers and on the density of dislocations. In irradiating samples with doses of $5 \cdot 10^{18}$ — $7.5 \cdot 10^{18}$ neutron/cm², the spectrum of F-centers disappears and a signal appears from the conductivity electrons ($\Delta H \sim 5$ erg) of metallic lithium, which is explained by the coagulation of a colloidal metal formed in the lattice. [Translation of abstract]

SUB CODE: 20

Card 2/2 nst

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14 no.6:668-70 B.S. 1965. (MIRA 18:12)

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Dziarsh. vyd-va BSSR, 1957. 41 p. (MIRA 11:1)
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SOBOLEVSKAYA, V.A.

Folded foundation in the Ural part of the West Siberian Plain.
Izv.AN SSSR.Ser.geol. 23 no.9:52-61 S '58. (MIRA 11:11)

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